

JI WHITNE

# Diamonds Soda Water

Many of the gears in Wasp and Hornet engines are made of suest tood not be benchined with even the finest of tool suest. They have too be in order to stand up at speeds as high as \$1,000 r.p.m. Under a dealuged grinder devised by the Frait & Whitney technical rasif. Twice during the grinding of devised by the Frait & Whitney technical rasif. Twice during the grinding of each gaset its grinding wheat is draised with dismondat to an exact angle in order to insure absolute accuracy. Only in this manner can gears be made to meet Frait & Whitney standards.

WASP & HORNET ENGINES
The Pratt & Whitney Aircraft Company, East Hartford, Connecticut

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DESIGN AND PRODUCTION

Early understone of what designers may expect to not at the Delevial show page 16.

Technical details of the Caroline 400, waters at the Coope Designers and page 19.

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POWER AND ADDRESS AND COMMISSION AND THE POWER AND THE POW

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ABOY AND NAVY

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PROTE AND EXYM SERVICES
What forms of homegoe are most coded by from survice operation; page 46.
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Contents for July, 1935

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## The Sikorsky S-43

Are SKF-Equipped







The Sikaesky Sd3 combibion has one thing in common with its famous sister ship, the S-42; its Pratt & Whitney engines are EEEF-contoped.

2007's give it bearing dependability at maximum sea level speeds of 186 miles per bour and landing speeds of 65 miles per hour. They bring confidence to its pilot. safety to its presenters.

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all conditions of service Memmac was the pioneer in non-chalking, nonbleeding, non-fishing finishes for sir craft use. We invite incrimes concerning our person products and our fucilities for developing new frushes





MERRIMAC CHEMICAL COMPANY, EVERETT STATION, BOSTON, MAISS

#### PAYLOAD AND SPEED COMES INTO ITS OWN

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The most thoroughly sound-proofed modern sironit, emphasizing pessenger conduct, paylond and performance, the S-41 was hailed by sirling operators here and abroad as opening up new possibilities for reducing travel time oxposu. The S-43 can fly and manouver fully

stantially reducing travel time between such Insportant centure as New York and Chicago. Reflectors the clean breatend sound desum of the fermions roadprosence that \$400 fairs name Skonky Amphibios provides accommodations of unoqualled luxury for 16 pessengers, a crew of 3 and 1500 possess of besseen, mail and loaded with only one of its two 750 hours

ON SEA AMPHIBION TRANSPORT

power Fran & Whitney seared Hornet engines A very definite traffic builder for

transport lines. The interior of the ship may be easily exas a long-range mail transport, the S-45 offers a range of 8,000 miles with a payload of 1,100 pounds. Crassing speed is titt miles per hour at 8,000 feet at 75% of available power. A high rosed of 200 miles per hour it attended

at rated altitude.



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SPECIFICATIONS FOR NEW CUSTOM CARLS WATER WHITTEN BY ARE SPORTSHESS

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Ver 90% of the air transport mileage is flown with WESTON AIRCRAFT Instruments

WESTON



AVIATION for July, 1935



#### Reunion in Detroit

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#### By Phillip Del Vecchio and Daniel Sayre

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By S. Paul Johnston



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### **Hammering Down Production Costs**

The outhor explied drop horomer methods to construction of the allowed Solor transport back in 1929 and more recently has been connected with the Engineering Department

of the Airplane Development Corporation By William L. Lewis

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Mechanical equipment

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#### Stainless in Compression In last month's article Mr.

Samon discussed the needlens incidental to the use of stateless steel in tension Here he deals with more complex comparisons betreen 18-8 and the alumiman allow in compression.

By W. L. Sutton

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Back to Berrait FOR THREE YEARS now we have been talking fashion, and the longer we got alone without them. percent carrie cour to Detroit where the habit of cates.

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\* It is to be bossed that in these three years and more we have learned something of the purposes and the nonibilities of shows, and that we have red years in shaking off. The most shrard of the letfinally, and that the opening day of a show should he the occupied for a bourbless sensitive by every suredistance of new models theretofogo kept under lock and key. The leafter builders of successibles wascene in the anneancement of their new models. In he glassly absented by Chambers of Commerce

and to now effectives to opply goe things—the reads. be well advised to do the state and to take shows in their stride, disaltyper whatever they have ready If that tooks can seen be found on, we shall be able to do much loss groupbling than a new the rule

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#### Twin-radioed Airpianes?

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# Flying Equipment

#### Sikorsky's Latest

S-43, high speed, long range amphibian, performs brilliantly in Bridgeport flight trials

In account will far the science of air- orons application of the mobile source

















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## BENDIX B-K POWER BRAKES



The builders of modern airliners find it increasingly necessary to have quick and adequate brake control while maneuvering on the ground. It is only natural that builders of these craft should have selected Bendix BX Power Brakes for greater adeity. Thus again, Bendix piconeering research adde to travel adeity.

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The Army experiments with a Sec. going beenher for court defense

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Greet Brinds

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"A print bless to hose faith in his plane, his weather infromation, his radio, and los fast," says Cloud Pilos R L "Bud" Beker, of Promptunia Anthren "Tee been fixing the route over the Alleghouse from the Capital to the lakes for eight years, and I get a confurtable feeling out of the ross of Golf Assation Georgian. My faith has never been shalow us the abil. sty of the feel to deliver when I weeded it." Other pilots aggee The reason or Gall Amaton

Geroline in reports dead from the best crosts only. It meets every specification of the U.S. Arrey and Navy





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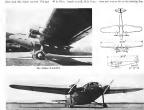
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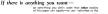
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